

REMARKS

Claims 1-71 are presented. Claims 1-32 previously issued. There are no amendments to Claims 1-32. Claims 33-71 are new claims, of which claims 33, 38, 46, 51, and 59 are independent. No new matter has been added.

| <u>Claim 33</u> | <u>Support in Specification</u> |
|---|---|
| A germicidal system resistant to environmental exposure | Column 3, Line 65 – Column 4, Line 7 and Column 5, Line 59 – Column 6, Line 16. |
| a germicidal tube comprising an envelope, a stem, and a gas enclosed by the envelope and the stem | Column 5, Lines 28-36. |
| a power supply adapted to receive power from an external source and provide power to the germicidal tube | Column 3, Line 65 – Column 4, Line 4, and Column 6, Lines 37-41 and 52-60. |
| an electrical interface electrically connecting an electrode of the stem and the power supply via plural wires | Column 6, Lines 37-41 and 52-60. |
| a fixture supporting the power supply and the germicidal tube | Column 5, Lines 59-60, Column 6, Lines 36 and 44-46, and Column 8, Lines 57-58. |
| the cover adapted to ruggedize an electrical interface | Column 3, Line 65 – Column 4, Line 4. |
| an exterior surface resistant to at least one of falling dirt, rain, sleet, snow, windblown dust, formation of ice, splashing water, hose directed water, and environmental corrosion | Column 5, Lines 60-63. |

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| a material resistant to at least one of external impacts, UV exposure, environmental exposure, heat, and moisture | Column 5, Line 66 – Column, Line 5. |
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Claim 34 is dependent from claim 33.

| <u>Claim 34</u> | <u>Support in Specification</u> |
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| the cover is further adapted to couple to the fixture and at least partially enclose the electrical interface | Column 6, Lines 11-16. |

Claim 35 is dependent from claim 34.

| <u>Claim 35</u> | <u>Support in Specification</u> |
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| the cover is further adapted to seal to the fixture | Column 6, Lines 11-16. |

Claim 36 is dependent from claim 35.

| <u>Claim 36</u> | <u>Support in Specification</u> |
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| wherein the cover is completely enclosing the electrical interface | Column 6, Lines 11-16. |

Claim 37 is dependent from claim 36.

| <u>Claim 37</u> | <u>Support in Specification</u> |
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| wherein the material is thick and rigid | Column 5, Line 66 – Column 6, Line 1. |

Claim 38 is independent.

| <u>Claim 38</u> | <u>Support in Specification</u> |
|--|---|
| A germicidal system for harsh environments | Column 3, Line 65 – Column 4, Line 7 and Column 5, Line 59 – Column 6, Line 16. |
| a germicidal tube comprising an envelope, a stem, and a gas enclosed by the envelope and the stem | Column 5, Lines 28-36. |
| a power supply adapted to receive power from an external source and provide power to the germicidal tube | Column 3, Line 65 – Column 4, Line 4, and Column 6, Lines 37-41 and 52-60. |
| a fixture comprising a base adapted for mounting on an external surface of a wall, including an opening through which the envelope of the tube is passed for installation of the tube in the fixture and removal of the tube from the fixture, whereby the installation of the tube in the fixture couples the tube to the fixture | Column 6, Lines 6-10 and 26-36. |
| one or more fixture walls coupled to the base wherein the stem, the base and the fixture walls define an interior space of the fixture | Column 6, Lines 11-12 and 17-35. |
| a tube holder, attached to one of the fixture walls, for holding the germicidal tube, at least partially support the germicidal tube | Column 9, Lines 30-33. |
| wherein the fixture is resistant to environmental conditions including at least one of falling dirt, rain, sleet, snow, windblown dust, formation of ice, splashing water, hose directed water, environmental | Column 5, Lines 60-63 and Column 6, Lines 11-16. |

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| corrosion to protect the interior space of the fixture from the environmental conditions | |
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Claim 39 is dependent from claim 38.

| <u>Claim 39</u> | <u>Support in Specification</u> |
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| at least one of the fixture walls and the base of the fixture are separable | Column 6, Lines 20-23. |

Claim 40 is dependent from claim 38.

| <u>Claim 40</u> | <u>Support in Specification</u> |
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| at least one of the fixture walls and the base of the fixture have a clamshell design | Column 6, Lines 20-23. |

Claim 41 is dependent from claim 38.

| <u>Claim 41</u> | <u>Support in Specification</u> |
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| the base of the fixture includes the tube-holder | Column 9, Lines 30-33. |

Claim 42 is dependent from claim 38.

| <u>Claim 42</u> | <u>Support in Specification</u> |
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| the tube holder includes an electrical connector which engages at least one electrode in the stem of the tube when the tube holder engages the stem | Column 11, Lines 14-16. |

Claim 43 is dependent from claim 38.

| <u>Claim 43</u> | <u>Support in Specification</u> |
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| the germicidal tube when energized emits UVC without substantial ozone and can withstand skin-effect cooling in an air flow of between 200 cfm and 600 cfm at between 30 degrees Fahrenheit and 65 degrees Fahrenheit | Column 5, Lines 41-49. |

Claim 44 is dependent from claim 38.

| <u>Claim 44</u> | <u>Support in Specification</u> |
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| the tube emits UVC | Column 5, Lines 41-49. |

Claim 45 is dependent from claim 38.

| <u>Claim 45</u> | <u>Support in Specification</u> |
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| at least one of the fixture walls and the base of the fixture have a clamshell design the tube holder includes an electrical connector which engages at least one electrode in the stem of the tube when the tube-holder engages the stem the germicidal tube which, when energized, emits UVC without substantial ozone and can withstand skin effect cooling in an air | Column 6, Lines 20-23, Column 11, Lines 14-16, and Column 5, Lines 41-49. |

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| flow of between 200 cfm and 600 cfm at between 30 degrees Fahrenheit and 65 degrees Fahrenheit | |
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Claim 46 is independent.

| <u>Claim 46</u> | <u>Support in Specification</u> |
|---|---|
| A germicidal system resistant to environmental exposure | Column 3, Line 65 – Column 4, Line 7 and Column 5, Line 59 – Column 6, Line 16. |
| a germicidal tube comprising an envelope, a stem, and a gas enclosed by the envelope and the stem | Column 5, Lines 28-36. |
| means for receiving power from an external source and providing power to the germicidal tube | Column 3, Line 65 – Column 4, Line 4, and Column 6, Lines 37-41 and 52-60. |
| means for electrically connecting an electrode of the stem and the power receiving and providing means | Column 6, Lines 37-41 and 52-60. |
| means for supporting the power receiving and providing means and the germicidal tube | Column 5, Lines 59-60, Column 6, Lines 36 and 44-46, and Column 8, Lines 57-58. |
| means for ruggedizing the electrically connecting means | Column 3, Line 65 – Column 4, Line 4. |
| an exterior surface resistant to at least one of falling dirt, rain, sleet, snow, windblown dust, formation of ice, splashing water, hose directed water, and environmental corrosion | Column 5, Lines 60-63. |
| a material resistant to at least one of external impacts, UV exposure, environmental | Column 5, Line 66 – Column 6, Line 5. |

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| exposure, heat, and moisture | |
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Claim 47 is dependent from claim 46.

| <u>Claim 47</u> | <u>Support in Specification</u> |
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| the ruggedizing means includes means for coupling to the supporting means and at least partially enclosing the electrically connecting means | Column 6, Lines 11-16. |

Claim 48 is dependent from claim 47.

| <u>Claim 48</u> | <u>Support in Specification</u> |
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| the ruggedizing means includes means for sealing to the supporting means | Column 6, Lines 11-16. |

Claim 49 is dependent from claim 48.

| <u>Claim 49</u> | <u>Support in Specification</u> |
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| wherein the ruggedizing means is completely enclosing the electrically connecting means | Column 6, Lines 11-16. |

Claim 50 is dependent from claim 49.

| <u>Claim 50</u> | <u>Support in Specification</u> |
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| wherein the material is thick and rigid | Column 5, Line 66 – Column 6, Line 1. |

Claim 51 is independent.

| <u>Claim 51</u> | <u>Support in Specification</u> |
|---|---|
| A germicidal system for harsh environments | Column 3, Line 65 – Column 4, Line 7 and Column 5, Line 59 – Column 6, Line 16. |
| a germicidal tube comprising an envelope, a stem, and a gas enclosed by the envelope and the stem | Column 5, Lines 28-36. |
| means for receiving power from an external source and providing power to the germicidal tube | Column 3, Line 65 – Column 4, Line 4, and Column 6, Lines 37-41 and 52-60. |
| a fixture comprising means for mounting on an external surface of a wall, including an opening through which the envelope of the tube is passed for installation of the tube in the fixture and removal of the tube from the fixture, whereby the installation of the tube in the fixture couples the tube to the fixture | Column 6, Lines 6-10 and 26-36. |
| means for coupling to the mounting means wherein the stem, the mounting means and the coupling means define an interior space of the fixture | Column 6, Lines 11-12 and 17-35. |
| means for at least partially supporting the germicidal tube wherein the supporting means is attached to the coupling means | Column 9, Lines 30-33. |
| wherein the fixture is resistant to environmental conditions including at least one of falling dirt, rain, sleet, snow, windblown dust, formation of ice, splashing water, hose directed water, environmental corrosion to protect the interior space of the fixture from the environmental conditions | Column 5, Lines 60-63 and Column 6, Lines 11-16. |

Claim 52 is dependent from claim 51.

| <u>Claim 52</u> | <u>Support in Specification</u> |
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| coupling means and the mounting means of the fixture are separable | Column 6, Lines 20-23. |

Claim 53 is dependent from claim 51.

| <u>Claim 53</u> | <u>Support in Specification</u> |
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| the coupling means and the mounting means of the fixture have a clamshell design | Column 6, Lines 20-23. |

Claim 54 is dependent from claim 51.

| <u>Claim 54</u> | <u>Support in Specification</u> |
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| the mounting means of the fixture includes the supporting means | Column 9, Lines 30-33. |

Claim 55 is dependent from claim 51.

| <u>Claim 55</u> | <u>Support in Specification</u> |
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| the supporting means includes means for electrically engaging at least one electrode in the stem of the tube when the supporting means engages the stem | Column 11, Lines 14-16. |

Claim 56 is dependent from claim 51.

| <u>Claim 56</u> | <u>Support in Specification</u> |
|---|--|
| the germicidal tube when energized emits UVC without substantial ozone and can withstand skin-effect cooling in an air flow of between 200 cfm and 600 cfm at between 30 degrees Fahrenheit and 65 degrees Fahrenheit | Column 5, Lines 41-49. |

Claim 57 is dependent from claim 51.

| <u>Claim 57</u> | <u>Support in Specification</u> |
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| the tube emits UVC | Column 5, Lines 41-49. |

Claim 58 is dependent from claim 51.

| <u>Claim 58</u> | <u>Support in Specification</u> |
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| the coupling means and the mounting means of the fixture have a clamshell design the supporting means includes an electrically engaging means which engages at least one electrode in the stem of the tube when the supporting means engages the stem the germicidal tube which, when energized, emits UVC without substantial ozone and can withstand skin effect cooling in an air flow of between 200 cfm and 600 | Column 6, Lines 20-23, Column 11, Lines 14-16, and Column 5, Lines 41-49. |

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| cfm at between 30 degrees Fahrenheit and 65 degrees Fahrenheit | |
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Claim 59 is independent.

| <u>Claim 59</u> | <u>Support in Specification</u> |
|---|---|
| A germicidal lamp for harsh environments | Column 3, Line 65 – Column 4, Line 7 and Column 5, Line 59 – Column 6, Line 16. |
| means for emitting UVC without substantial ozone and for withstanding skin-effect cooling, the emitting means including an envelope and a stem | Column 5, Lines 28-36. Column 5, Lines 41-49. |
| a fixture | Column 4, Lines 55-60. |
| means for sealing against a wall to thereby prevent splashing water, hose-directed water, ice formations, wind, dirt, rain and environmental corrosion to pass there through | Column 6, Lines 6-10 and 26-36. |
| means for opening the fixture | Column 6, Lines 17-25. |
| means for sealing the fixture tightly to thereby prevent splashing water, hose-directed water, ice formations, wind, rain and environmental corrosion from entering the interior space of the fixture | Column 5, Line 59 – Column 6, Line 5. |
| means for allowing the emitting means to be passed through the fixture for installation and removal | Column 6, Lines 26-30. |
| means for sealing the fixture from air | Column 6, Lines 26-36. |

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| flowing into the fixture | |
| means for engaging and securing the emitting means. | Column 9, Line 30 - Column 11, Line 16. |

Claim 60 is dependent from claim 59.

| <u>Claim 60</u> | <u>Support in Specification</u> |
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| the emitting means comprises an elongate hollow cylinder | Column 5, Lines 36-37. |

Claim 61 is dependent from claim 59.

| <u>Claim 61</u> | <u>Support in Specification</u> |
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| the emitting means includes means for causing UVC output to peak when an air flow of between 200 cfm and 600 cfm at between 30 °F and 65 °F is passed across the emitting means | Column 5, Lines 42-58. |

Claim 62 is dependent from claim 61.

| <u>Claim 62</u> | <u>Support in Specification</u> |
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| the emitting means includes means for causing UVC output to peak when an air flow of 400 cfm at 55 F is passed across the emitting means | Column 5, Lines 42-58. |

Claim 63 is dependent from claim 59.

| <u>Claim 63</u> | <u>Support in Specification</u> |
|---|--|
| the emitting means includes means for emitting UVC of at least $10 \mu\text{W}/\text{cm}^2$ per inch arc length at one meter when an airflow of between 100 and 800 cfm is passed across the emitting means | Column 5, Lines 42-58. |

Claim 64 is dependent from claim 59.

| <u>Claim 64</u> | <u>Support in Specification</u> |
|--|--|
| the emitting means includes means for emitting UVC of at least $10 \mu\text{W}/\text{cm}^2$ per inch arc length at one meter when an air flow of between 0 °F and 70 °F is passed across the tube. | Column 5, Lines 42-58. |

Claim 65 is dependent from claim 59.

| <u>Claim 65</u> | <u>Support in Specification</u> |
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| having a weight of less than two lbs. | Column 5, Lines 19-27. |

Claim 66 is dependent from claim 59.

| <u>Claim 66</u> | <u>Support in Specification</u> |
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| the fixture includes means for separating | Column 6, Lines 17-25. |

Claim 67 is dependent from claim 59.

| <u>Claim 67</u> | <u>Support in Specification</u> |
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| the fixture has a clamshell design | Column 6, Lines 17-25. |

Claim 68 is dependent from claim 59.

| <u>Claim 68</u> | <u>Support in Specification</u> |
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| means for sealing the fixture against the wall, creating a seal between the fixture and the wall that can withstand air pressure of at least 15 inches of water gage | Column 7, Lines 49-64. |

Claim 69 is dependent from claim 59.

| <u>Claim 69</u> | <u>Support in Specification</u> |
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| means for sealing the fixture to withstand air pressure of at least 30 inches of water gage | Column 7, Line 65 – Column 8 Line 12. |

Claim 70 is dependent from claim 59.

| <u>Claim 70</u> | <u>Support in Specification</u> |
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| An air handling system comprising the germicidal lamp | Column 4, Lines 61-66. |

Claim 71 is dependent from claim 59.

| <u>Claim 71</u> | <u>Support in Specification</u> |
|---|--|
| An HVAC system comprising the germicidal lamp | Column 4, Lines 61 – 66. |

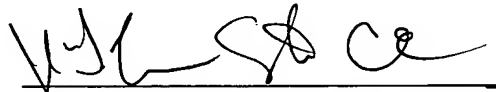
Patent. No. 6,372,186
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Conclusion

The Examiner is invited to call the undersigned attorney to answer any questions or to discuss steps necessary for placing the reissue application in condition for allowance.

Respectfully submitted,

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